

Application Number 10/783,999
Response to Office Action mailed August 9, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Original): A computer-implemented system for storing data, the system comprising:
one or more member cubes for storing data partitioned along a dimension;
a control cube for accessing the member cubes.

Claim 2 (Original): The system as claimed in claim 1, wherein the control cube has an entire
partitioned dimension relative to the member cubes.

Claim 3 (Original): The system as claimed in claim 2, wherein the control cube further has:
a listing of other dimensions of the member cubes; and
a listing of measures of the member cubes.

Claim 4 (Original): The system as claimed in claim 1, wherein the data is partitioned along the
time dimension.

Claim 5 (Original): The system as claimed in claim 4, wherein the control cube has:
an entire time dimension relative to the member cubes;
a listing of other dimensions of the member cubes; and
a listing of measures of the member cubes.

Claim 6 (Original): The system as claimed in claim 5, wherein a member cube is added to the
system.

Claim 7 (Original): The system as claimed in claim 6, wherein a member cube is removed from
the system.

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Claim 8 (Original): The system as claimed in claim 5, wherein the control cube restricts access to member cubes.

Claim 9 (Original): The system as claimed in claim 5, further comprising a plurality of control cubes, each control cube coupled with a group of member cubes from a pool of member cubes to form a separate dimension-based partitioned cube.

Claim 10 (Original): The system as claimed in claim 9, wherein different control cubes over the same pool of member cubes restrict data access to different portions of data for different users.

Claim 11 (Original): The system as claimed in claim 2, wherein a member cube is the control cube of another dimension-based partitioned cube.

Claim 12 (Currently Amended): A computer-implemented method of transforming a body of data into a dimension-based partitioned cube, the method comprising the steps of:
partitioning the data into one or more dimension-based partitions;
creating member cubes corresponding to the one or more dimension-based partitions; and
creating a control cube for representing the data distributed over the member cubes.

Claim 13 (Original): The method as claimed in claim 12, wherein the data is partitioned along the time dimension.

Claim 14 (Original): The method as claimed in claim 13, wherein the data is partitioned into equidistant time intervals.

Claim 15 (Original): The method as claimed in claim 13, wherein the data is partitioned into non-equidistant time intervals.

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Claim 16 (Original): The method as claimed in claim 13, wherein the data is partitioned into a sliding window of time intervals.

Claim 17 (Withdrawn): A method of querying a dimension-based partitioned cube, the method comprising the steps of:

analyzing a query received for a body of data organized into a dimension-based partitioned cube;

redirecting the query to one or more member cubes; and

aggregating results received from the one or more member cubes.

Claim 18 (Withdrawn): The method of claim 17, wherein the data is partitioned along the time dimension.

Claim 19 (Withdrawn): An online analytical processing query engine comprising a logic module for implementing the method of claim 17.

Claim 20 (Withdrawn): An online analytical processing query engine comprising a logic module for implementing the method of claim 18.